

B1  
Cont heterologous DNA sequence which codes for a heterologous G protein  $\alpha$  subunit ( $G_\alpha$ ), wherein said first and second heterologous DNA sequences are capable of expression in said cell and can operatively associate, and wherein said cell is incapable of expressing an endogenous G protein  $\alpha$ -subunit (yeast  $G_\alpha$ ).

---

B2 4. (Amended) A transformed yeast cell according to claim 1, wherein said heterologous G protein  $\alpha$  subunit is selected from the group consisting of  $G_S$   $\alpha$  subunits,  $G_L$   $\alpha$  subunits,  $G_O$   $\alpha$  subunits,  $G_Z$   $\alpha$  subunits, and transducin  $\alpha$  subunits.

---

B3 7. (Amended) A transformed yeast cell according to claim 1, wherein said first heterologous DNA sequence codes for a heterologous G protein-coupled receptor selected from the group consisting of dopamine receptors, muscarinic cholinergic receptors,  $\alpha$ -adrenergic receptors,  $\beta$ -adrenergic receptors, opiate receptors, cannabinoid receptors, and serotonin receptors.

---

#### REMARKS

Claims 1-9 were pending in the application. Claims 1-9 have been examined and the remaining claims have been withdrawn from consideration. Applicants reserve the right to pursue these claims in one or more divisional applications.

Claims 1, 4, and 7 have been amended to claim more fully the instant invention. In particular, the claims are directed to a transformed yeast cell containing a heterologous G protein coupled receptor and heterologous G protein which can operatively associate and, for example, transduce an intracellular signal. Support for the amendments to the claims can be found in the application. In particular, support can be found in the specification at least, for example, at page 2, lines 15-36; page 4, lines 9-34; page 7, lines 10-13; and in working Examples 5 and 6. *No new matter has been added to the application.*

The foregoing amendments have been made solely to claim more fully the invention and/or to expedite prosecution of the present application and should in no way be construed as an acquiescence to any of the rejections. Applicants reserve the right to pursue the subject matter of the claims as originally filed in one or more subsequent applications.

Attached hereto as Appendix A, captioned "MARKED UP VERSION TO SHOW CHANGES MADE" is a marked-up version of the changes made to the claims by the amendments presented herein. For the Examiner's convenience, a copy of the claims that